

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 **Claim 1 (original):** A pressure sensor comprising:
2 a sensor unit in which a piezoelectric layer containing a
3 piezoelectric ceramic material is sandwiched by a plurality
4 of electrodes;
5 a covering layer which covers the sensor unit; and
6 heat insulating means made from an expandable
7 synthetic resin which covers the circumference of the
8 covering layer.

1 **Claim 2 (original):** A pressure sensor as set forth in
2 Claim 1, wherein the sensor unit is a cable-like sensor
3 comprising a primary electrode which makes up a core unit,
4 a piezoelectric layer which covers the primary electrode
5 and a secondary electrode which covers the outside of the
6 piezoelectric layer.

1 **Claim 3 (original):** A pressure sensor as set forth in
2 Claim 1, wherein the sensor unit is a sheet-like sensor
3 which is formed such that a piezoelectric layer is
4 sandwiched by a primary electrode and a secondary
5 electrode.

1 **Claim 4 (currently amended):** A pressure sensor as set
2 forth in ~~any of Claims 1 to 3~~claim 1, wherein the heat
3 insulating means is an elastic material having a hollow
4 portion formed therein.

1 **Claim 5 (currently amended):** A pressure sensor as set
2 forth in ~~any of Claims 1 to 4~~claim 1, wherein the heat
3 insulating means is made to double as the covering layer.

1 **Claim 6 (currently amended):** A pressure sensor as set
2 forth in ~~any of Claims 1 to 5~~claim 1, wherein the heat
3 insulating means comprises a mounting portion for mounting
4 the pressure sensor on an equipment base material.

1 **Claim 7 (currently amended):** A pressure sensor
2 fabricating method for fabricating the pressure sensor set
3 forth in ~~any of Claims 1 to 6~~claim 1, comprising a step of
4 molding a heat insulating means on the periphery of the
5 sensor unit through extrusion molding.

1 **Claim 8 (currently amended):** An object detecting
2 system comprising the pressure sensor set forth in ~~any of~~
3 ~~Claims 1 to 6~~claim 1 and determination means for
4 determining on the contact of a foreign matter with the
5 pressure sensor based on an output signal of the pressure

6 sensor, whereby the contact of an object with the equipment
7 is detected.

1 **Claim 9 (currently amended):** An object detecting
2 system comprising:

3 the pressure sensor set forth in ~~any of Claims 1 to~~
4 claim 1 that is mounted either on an edge of an opening of
5 equipment or on an edge of a closing member which opens and
6 closes the opening; and

7 determination means for determining on the contact of
8 a foreign matter with the pressure sensor based on an
9 output signal of the pressure sensor, whereby the trapping
10 of a foreign matter between the opening and the closing
11 member is detected.